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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,117	09/11/2003	Serap Ayse Savari	3 6834	
759	90 04/05/2005		EXAM	INER
Ryan, Mason & Lewis, LLP			JEAN PIERRE, PEGUY	
Suite 205 1300 Post Road		ART UNIT	PAPER NUMBER	
Fairfield, CT 06824			2819	
·		DATE MAILED: 04/05/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/660,117	SAVARI, SERAP AYSE		
	Office Action Summary	Examiner	Art Unit		
		Peguy JeanPierre	2819		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address		
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period of ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠ 2a)⊠ 3)□	This action is FINAL . 2b) This action is non-final.				
Disposit	ion of Claims				
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4,7-10,13-15,17 and 18 is/are rejected. 7) ☐ Claim(s) 5,6,11,12,16, 19 and 20 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Settion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority	under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	ce of References Cited (PTO-892)	4) 🔲 Interview Summary			
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)		

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on 2/18/2005 have been fully considered but they are not persuasive. Applicant argues that Babu discloses "a method for generating a data model for compressing a data table". The Examiner agrees. However, the model is generated from the input string. The table as set forth in the rejection is compressed row-wise and each row represent the input string. The reference clearly teaches that the table is viewed as a large byte string (paragraph 5) and that popular compression programs such as gzip employ the Lempel Zip algorithm that treats the input data as a byte string and performs lossless compression on the input (see paragraph 5).

Applicant also argues that "the utilization of the lexicographic normal form in the present invention implies that a model for the data already exists and has been selected." There is no suggestion in the claim to support this assertion. Foe instance claim 1 does not recityes the existence of a model nor the selection of an existing model to use the lexicographic normal form. The claim recites the steps of generating a lexicographic normal form from an input string and applying a compression scheme to the lexicographic normal form (see rejection above). Such recitation can be clearly found in Babu (see rejection above). Moreover, Babu recites the use of a single pass over the input string (see paragraphs 122, 135).

Yang teaches a grammar based lossless compression scheme based for ordered/ sorted data. The lexicographic or Foata forms are ordered set of data. Hence, the use of such compression scheme can be used to compress these forms. Application/Control Number: 10/660,117

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It is to be noted that what a reference can be said to fairly suggest relates to the concepts fairly contained therein, and is not limited to the specific structure chosen to illustrate such concepts anymore than combining the teachings can be said to be limited by the artisan's ability to combine specifically disclosed reference structures (see In re Nievelt, 482 F.2d 179 USPQ 224 (CCPA 1973). Obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art.

Both references were available by the time the invention was made, Hence the combination of reference is proper.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4, 7-10, 13-15, 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Babu et al. (US 20030130855) in view of Yang et al. (USP 6,801,141).

Babu et al. disclose in Figure 1 a compression system that comprises a compression table that is compressed row-wise where each row represents the input string (154)

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events in a communication network.

page 12). The compression method uses only a single pass over a sorted (ordered) list of the input string and further employs a Lempel-Ziv compression method to compress the data (122 page 10; 135 page 11). Babu et al. fail to teach a grammar based lossless data compression scheme; that the input string is one or more program instructions or

Yang et al. disclose a lossless data compression system using context dependent grammar based algorithm. The algorithm of Yang et al. comprises programming instructions suitable in communication network by achieving online compression of webbased data to recover the original input string incrementally. Therefore, it would have been obvious to one having ordinary skill in the art to implement in the system of Babu et al. the grammar based compression scheme as taught by Tang et al. to efficiently transform an input sequence associated with specific context into an irreducible context dependent grammar and orderly recover the input sequence in critical applications such as text files, web pages etc... and facilitate interchange between the data or events. Though Babu et al. do not disclose a lexicographic or Foata normal form, it is to be noted that both forms call for ordering/sorting the input string. Hence, they both can be processed in the compression scheme of Babu et al. because of these identical features. It is also be noted that the sorting/ordering of the input string requires the use of a memory to read, write, process the input string as desired.

Allowable Subject Matter

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4. Claims 5-6, 11-12, 16 and 19-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Peguy JeanPierre Primary Examiner